	Application No.	Applicant(s)
Notice of Allowability	10/735,423	LIBEROL ET AL.
	Examiner	Art Unit	
	Mujtaba K. Chaudry	2133	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address*--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to _4/4/2005_.

2. ☒ The allowed claim(s) is/are _1-24_.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
    Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
    Paper No./Mail Date _4/4/2005_

4. ☐ Examiner's Comment Regarding Requirement for Deposit
    of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .

7. ☒ Examiner's ~~Amendment~~/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

ALBERT DECADY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2

_8/28/06_

DETAILED ACTION

Claims 1-24 are presented for examination.

Information Disclosure Statement

The references listed in the information disclosure statement (IDS) submitted April 04, 2005

were considered The submission is in compliance with the provisions of 37 CFR 1.97.

Oath/Declaration

The Oath filed December 12, 2003 complies with all the requirements set forth in MPEP 602 and

therefore is accepted.

Drawings

The drawings submitted December 12, 2003 are objected to because:

-        Formal drawings for Figures 5 and 6 are required.

Appropriate correction is requested.

Specification

The Specification filed December 12, 2003 has been accepted.

REASONS FOR ALLOWANCE

Claims 1-24 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 1 of the present application teaches a method for encoding data, comprising: (a) providing a first table of first component values multiplied by code generator coefficients and a second table of second component values multiplied by the code generator coefficients; (b) determining a Galois field element based on a message symbol and a high order remainder symbol; (c) separating the Galois field element into first and second components; (d) using the first component and a generator coefficient index to access one or more first table values in the first table and using the second component and the generator coefficient index to access one or more second table values in the second table, (e) determining a current remainder symbol based on first and second table values having equal generator coefficient indices, and a previous remainder symbol; (f) performing step (e) for each generator coefficient of the code generator to provide a group of remainder symbols; and (g) performing steps (b)-(f) for each message symbol in a codeword to provide a group of final remainder symbols which constitute check symbols to be transmitted with the message symbols of the codeword. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...*providing a first table of first component values multiplied by code generator coefficients and a second table of second component values multiplied by the code generator coefficients*; (b) determining a Galois field element based on a message symbol and a high order remainder symbol; (c) *separating the Galois field element into first and second components; (d) using the first component and a generator coefficient index to access one or more first table values in the first table and using the second component and the generator*

coefficient index to access one or more second table values in the second table, (e) determining a

current remainder symbol based on first and second table values having equal generator

coefficient indices, and a previous remainder symbol; *(f) performing step (e) for each generator*

coefficient of the code generator to provide a group of remainder symbols; and (g) performing

steps (b)-(f) for each message symbol in a codeword to provide a group of final remainder

symbols which constitute check symbols to be transmitted with the message symbols of the
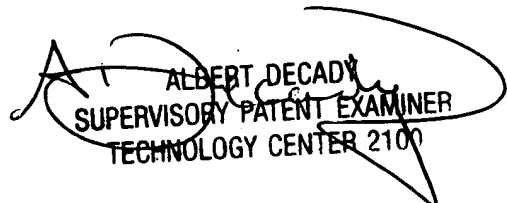
codeword."

Independent claim 13 recites similar limitations of independent claim 1 and therefore is

allowed for similar reasons.

Dependent claims 2-12 and 14-24 depend from allowable independent claims and

inherently include limitations therein and therefore are allowed as well.

Any inquiries concerning this communication should be directed to the examiner,

Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached

Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the

examiner's supervisor, Albert DeCady at 571-272-3819.

Mujtaba Chaudry
Art Unit 2133
August 28, 2006

ALBERT DECADY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100